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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
AIR AND RADIATION DIVISION

DATE: 27 April 1993

SUBJECT: Ambient Lead Concentrations near Master Metals, Cleveland, Ohio

FROM: John Gaitskill, Environmental Engineer *JTG*
Enforcement Section, Air Enforcement Branch

TO: Louise Fabinski, HS-6J

As you requested at the meeting on 26 April 1993, this is a description of the ambient lead concentrations near the Master Metals facility. The attached map shows the locations of the monitors. Also attached is an excerpt of the USGS topographical map of the area showing the relative position of the residential area to the northwest.

| <u>monitor</u> | <u>location</u> | <u>1st operation</u> | <u>interval</u> | <u>lead concentrations, ug/m³</u> | | |
|----------------|-----------------|----------------------|-----------------|--|----------------|--------------|
| | | | | <u>daily</u> | <u>monthly</u> | <u>qtrly</u> |
| fenceline | east side | Jan 92 | 6 days* | 1-117 | 21-79 | 21-39 |
| Meander tire | 500m north | Jan 92 | 6 days* | .03-3.1 | .3-1.55 | .86-1.28 |
| OEPA south | 30m south | 30 Dec 92 | 2 days | .1-27 | 4.2 | |
| OEPA west | 30m west | 30 Dec 92 | 2 days | .2-27 | 3.7 | |
| USEPA #1 | 85m ne | 12 Jan 93 | 3 days | .3-50 | 7.1-11.8 | |
| USEPA #2 | 80m ssw | 12 Jan 93 | 3 days | .1-19 | 2.8-4.7 | |
| USEPA #3 | 400m ssw | 12 Jan 93 | 3 days | 0-.2.3 | .37-.55 | |
| USEPA #4 | 340m se | 12 Jan 93 | 3 days | 0-1 | .39 | |
| St. Theodosius | 700m nw | July 92 | 6 days | | .08-.36 | .10-.19 |

*began operating at 2 day intervals in August 1992

attachments

cc: Shirley Mitchell
Turpin Ballard, HSRM-6J
Stuart Hersh, CA-3T

Grange
Hospital

RESIDENTIAL

Lincoln
Park

Tremont Sch

ST. THEODOSIUS CHURCH
elevation 680 feet

Playground

LIV STEEL

MASTER METALS
elevation 590 feet

CLARK

AVE

BM
582

LIV STEEL

600

INDEP

650

